

**A Film-less, No-Waste for Flash X-Radiography in
Los Alamos National Laboratory
Dynamic Experimentation Division
Hydrodynamics Applications Group**

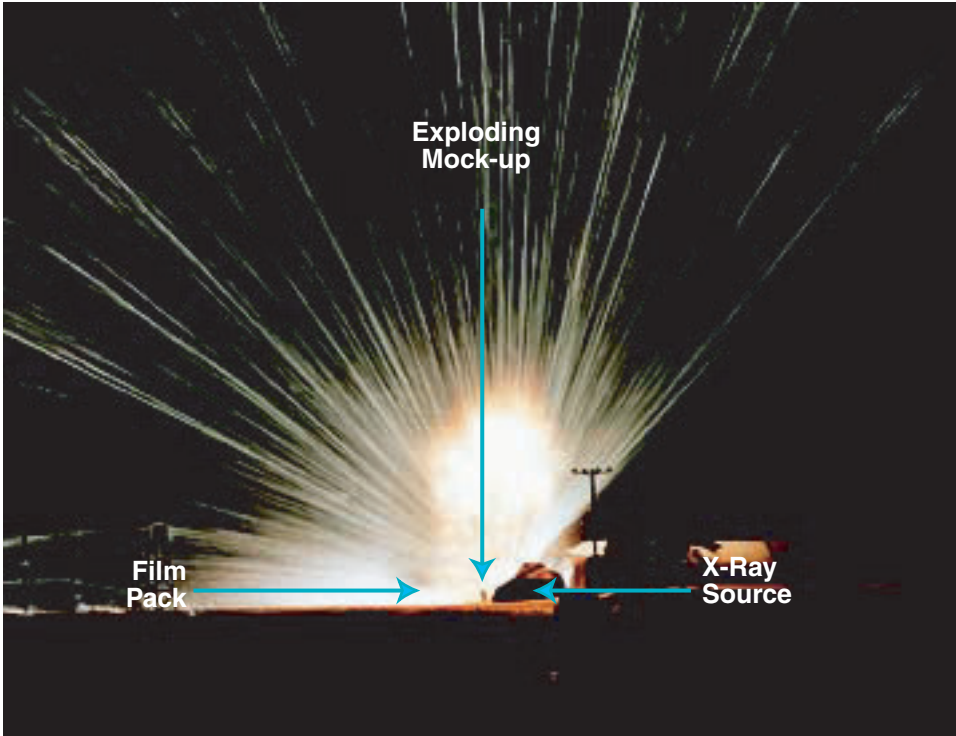


Figure 1 illustrates the process of taking flash x-ray pictures of high explosives. This process is similar to a medical x-ray in the doctor’s office except instead of x-raying humans, DX-3 x-rays an explosion.

Table 1.

| Yearly Costs for Radiographic Film Processing | |
|---|------------------|
| Chemical Waste Management | \$12,000 |
| Chemical Waste Disposal | \$12,000 |
| Facility Costs for Film Processing | \$12,000 |
| Unused Film | \$12,000 |
| Film Developing Labor | \$76,000 |
| Digitizing Labor | \$76,000 |
| Total | \$200,000 |

Table 2.

| Phosphor Scanning Process | |
|------------------------------|------------------|
| Labor Costs | \$95,000 |
| Savings (Yearly cost) | \$105,000 |